

### ABSTRACT OF THE DISCLOSURE

A method and apparatus of decoding turbo codes using a sliding window method is disclosed. In decoding a received sequence using a Maximum A Posteriori (MAP) algorithm, a learning by a backward processing is performed for a predetermined length and first resultant values calculated by the backward processing are stored. Second resultant values calculated by a forward processing. The calculation of the second resultant values overlaps in time with the learning. A decoding symbol output is determined using the second resultant values and the stored first resultant values.